

SEQUENCE LISTING

<110> Schall, Thomas J.
Penfold, Mark E.T.
ChemoCentryx, Inc.

<120> Methods and Compositions Useful for Stimulating an
Immune Response

<130> 019934-001610US

<140> US 10/061,943
<141> 2002-02-01

<150> US 60/265,925
<151> 2001-02-02

<160> 34

<170> PatentIn Ver. 2.1

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<212> DNA
<213> Rhesus cytomegalovirus

<220>
<223> rhesus monkey (Macaca mulatta) cytomegalovirus
(rhCMV) short unique region 28.1 (rhUS28.1) coding
sequence

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<213> Rhesus cytomegalovirus

<220>
<223> rhesus monkey (Macaca mulatta) cytomegalovirus
(rhCMV) short unique region 28.2 (rhUS28.2) coding
sequence

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 gtgaaaaaca aacccttag cgtaaaaaaaa gccagcgtca gctgcgcgtg catctggatc 420
 attgttatta tagtgttttc accatactac atgttttagat cgcaacacga aacaattct 480
 tgcattctag gaaactacac ctggcatatg aacagtccctt ttcgcaccac aatggacgca 540
 tccattaaca tttggtcttt tgcgttccg gccgtgacga ccttggtaat agccagacga 600
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 gccatggtga ttagcatgtt attcttcgga ggactttca acctgaacat ctttcgagac 720
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 gaaacactag atgcagaaca cgctaaactc atggtaatt taaaaaacag aaatgctaat 960
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 <213> Rhesus cytomegalovirus

<220>
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 (rhCMV) short unique region 28.3 (rhUS28.3) coding
 sequence

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 attgtgtgc tcagcggtct cgtcgtaaaa cgcaagctca agtttccgaa tgacatttac 180
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 tattgcactgg actccacaca acttagcaag ttctcatgtt tcaactttac gtttgggttt 300
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 caccatgca tcatgagaaa ctatacctgg agcgttggc aacatggca catagccctg 540
 gatttcttaa ttacgctcat tacattttatc atgcgttgc tttttttttt tttttttttt 600
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 atccttattt tgataactgac agtagcggca gggttctgg gacctttca cttttttttt 720
 tttatagaaa acgtggcagg gcaagatttac cacattcaaa aggattgtt gttttttttt 780
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<210> 4
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 <212> DNA
 <213> Rhesus cytomegalovirus

<220>
 <223> rhesus monkey (Macaca mulatta) cytomegalovirus
 (rhCMV) short unique region 28.4 (rhUS28.4) coding
 sequence

<400> 4

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 aaccatcaga gacgacacccg gacaaacagt ttcagtatcg ttttatttcg acatctcatg 180
 atcaccgaag aggtcttac cctcaccatt cccgtctggg cgatcactt aactactcac 240
 ggcaacttac cgggctcggt gtggcgaagt ctcacccgt tttttatct aacggatttc 300
 gctcggtcct tcttttaccc gctcctcatc tgggaccgt acagcgtaat catctgcaga 360
 caccctctcc ccgttaatct gaactacagt caggtcatag gctgtctgt ctggctgggt 420
 gccgtactgt cagcatcacc gtttccatt ttaacggaa gtgtgaaaca atgcctgggc 480
 aacatgggca gcatacccg cgaatcgct gccgttctta acctggaaagt gcacctgtgc 540
 tccttctggt taccgctcat catgtcggt aactgttact accaagcaaa acgcccggca 600
 tcgcctgacc aactccacga actttaccga tgcagttgc taattaccat tatcacaact 660
 tacgctatcg tatggttcc tttccatctc gctttactca tagacgcccgt gattagcata 720
 agccatgttag aaccctcttag cgctctccac tgggcatcca ttgtcggtac ctgtaaatca 780
 tttacatttg tatatgcggg cataagccca ctatgttattt tccatgtctg ccccacccgt 840
 cgtcgcgaac tgctgatgtc tctacgttca ttcttccactt ggatttccag caaaacgcgg 900
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 aagtccaccgc acctgttaaa cgaataa 987

<210> 5
 <211> 1452
 <212> DNA
 <213> Rhesus cytomegalovirus

<220>
 <223> rhesus monkey (Macaca mulatta) cytomegalovirus
 (rhCMV) short unique region 28.5 (rhUS28.5) coding
 sequence

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 ctgacaacga tatcaacaac ttctaatgct accaggataa cgtctaattt aagcaactacc 180
 gaaaaaccaa ctgcaactac caatgtact accttcagtt ccacattaac aacatctaca 240
 aataataagca gtacatttc gacagtttctt accgtcgcattt ccaatgcac atgtaattct 300
 acaatcacaa cgaatattac aactgctttt actacagcag caaacactac cgcaaggcagc 360
 ctcaccagca tcgtaacttc acttgccactt accattgaaa ccacatcatt tgattatgt 420
 gagtcagcag aagcttgaa cttAACAGAC atcgttcata ctactagatc agtgcacgtt 480
 actttctata ctatcatatt catactcggtt cttttggaa actttctgtt tctttagacc 540
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 gtcatgtcac atgcattctg ttagcaatg acagccattt tttattgcgc gctgtttgc 720
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<211> 990
<212> DNA
<213> Rhesus cytomegalovirus

<220>
<223> rhesus monkey (Macaca mulatta) cytomegalovirus
(rhCMV) long unique region 33 (rhUL33) coding
sequence

<400> 6
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agcaatcaac accttttacc tgccagtgc gtaacctgt aatttctctc cctgttgc 120
tactctagct gcagcgtagg tttgtctaca gtggcactga tagcggccga ccgataccga 180
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<210> 7
<211> 1328
<212> DNA
<213> Rhesus cytomegalovirus

<220>
<223> rhesus monkey (Macaca mulatta) cytomegalovirus
(rhCMV) long unique region 33 (rhUL33) spliced
coding sequence

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<210> 8
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<212> DNA
<213> Rhesus cytomegalovirus

<220>
<223> rhesus monkey (Macaca mulatta) cytomegalovirus
(rhCMV) long unique region 78 (rhUL78) coding
sequence

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<211> 2100
<212> DNA
<213> Rhesus cytomegalovirus

<220>
<223> rhesus monkey (Macaca mulatta) cytomegalovirus
(rhCMV) long unique region 33 (rhUL33) splice
variant segment that extends 1000 nucleotides
upstream and 200 nucleotides downstream of the
rhUL33 reading frame

<220>
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<222> (603)..(752)
<223> exon 1

<220>
<221> intron
<222> (753)..(830)

<220>
<221> exon
<222> (831)..(2006)
<223> exon 2

<220>
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<222> (1017)..(2006)
<223> unspliced gene

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<210> 10
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:human
cytomegalovirus (HCMV) long unique region 146
(UL146) CXC (alpha) chemokine homolog (vCXC1)
clinical strain conserved structural motif

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<400> 10
Glu Leu Arg Cys Xaa Cys
 1           5

<210> 11
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:human CMV
      strain AD 169 AD27/28 PCR amplification primer
      AD27up

<400> 11
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<210> 12
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:human CMV
      strain AD169 AD27/28 PCR amplification primer
      AD28low

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<210> 13
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<220>
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      strain AD169 AD27/28 PCR amplification primer
      AD28up

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<210> 14
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<223> Description of Artificial Sequence:human CMV
      strain AD169 AD27/28 PCR amplification primer
      AD29low

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<210> 15
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<223> Description of Artificial Sequence:human CCR7
      receptor CCR7.1 PCR amplification primer ccr7up

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<210> 16
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:human CCR7
      receptor CCR7.1 PCR amplification primer ccr7low

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<210> 17
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:murine CMV PCR
      amplification primer S78.1

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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:murine CMV PCR
      amplification primer S78.2

<400> 18
cggaattccg tccggctgct gcgcttcttc                                30

<210> 19
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:murine CCR7
      receptor (mCCR7) PCR amplification primer mCCR7up

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<400> 19
ataagaatgc ggccgctgac ccagggaaac ccagg 35

<210> 20
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:murine CCR7
receptor (mCCR7) PCR amplification primer mCCR7low

<400> 20
cggaattccg tcagtcctg ggagaggtcc ttg 33

<210> 21
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:human CMV
strain AD169 PCR amplification primer 108 up

<400> 21
gcggtaccgc gacgcccgtcg ctggg 25

<210> 22
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:human CMV
strain AD169 PCR amplification primer 108 low

<400> 22
tggatccgtc agggaaatac aag 23

<210> 23
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:human CMV
strain AD169 PCR amplification primer 109 up

<400> 23
atggatccctc ttctatcacg gtggc 25

<210> 24
<211> 25
<212> DNA
<213> Artificial Sequence

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<220>
<223> Description of Artificial Sequence:human CMV
      strain AD169 PCR amplification primer 109 low

<400> 24
gcggatccag gatcgatttc gtgcg                                25

<210> 25
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Bacillus
      anthracis protective antigen (BAPA) PCR primer
      BAPAup

<400> 25
ggcccgggga agttaaacag gagaaccg                                28

<210> 26
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Bacillus
      anthracis protective antigen (BAPA) PCR primer
      BAPAlow

<400> 26
gggatatctt accttatacct atctcat                                27

<210> 27
<211> 70
<212> DNA
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<220>
<223> Description of Artificial Sequence:complementary
      oligo containing Ig kappa leader sequence

<400> 27
ctagcatgga gacagacaca ctccctgctat gggtaactgct gctctgggtt ccaggttcca 60
      ctggtgaccc                                70

<210> 28
<211> 70
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:complementary
      oligo containing Ig kappa leader sequence

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<400> 28
ccgggggtca ccagtggAAC ctggAACCCa gagcagcAGT acccatAGCA ggagtgtgtc 60
tgtctccatg 70

<210> 29
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:rhesus CMV
strain Rh68.1 Rh32/33 PCR amplification primer
Rh32up

<400> 29
cggaaattcct cttagtcgg cagggtctt 29

<210> 30
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:rhesus CMV
strain Rh68.1 Rh32/33 PCR amplification primer
Rh33low

<400> 30
ctggatccgt ggctttgtct ttggcttt 29

<210> 31
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:rhesus macaque
SLO RhCMV immediate early 2 gene nested PCR primer

<400> 31
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<210> 32
<211> 20
<212> DNA
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<220>
<223> Description of Artificial Sequence:rhesus macaque
SLO RhCMV immediate early 2 gene nested PCR primer

<400> 32
tgcttgggaa atctctgcac 20

<210> 33
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:rhesus macaque
SLO RhCMV immediate early 2 gene nested PCR primer

<400> 33
cccttcctga ctactaatgt ac

22

<210> 34
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:rhesus macaque
SLO RhCMV immediate early 2 gene nested PCR primer

<400> 34
ttgggaaatc tctgcacaag

20